

Patent
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Amendments to the Claims

Please amend claims 21, 26, 27, 41-43, 45 and 46 as follows:

1-20 (Cancelled)

21. (Currently Amended) A hatched chimeric chicken comprised of progeny of embryonic stem cells having a genome comprising a stably integrated transgene ~~wherein a contribution of the genome~~ wherein expression of the stably integrated transgene of the embryonic stem cells is detected in at least one tissue type of the chimeric chicken ~~by expression of the integrated transgene.~~

22-25 (Cancelled)

26. (Currently Amended) The chimeric chicken of claim 21 wherein the ~~contribution of the embryonic stem cells~~ expression of the stably integrated transgene is detected in extra-embryonic tissue.

27. (Currently Amended) The chimeric chicken of claim 21 wherein the ~~contribution of the embryonic stem cells~~ expression of the stably integrated transgene is detected in somatic tissue of the chicken.

28. (Previously Amended) The chimeric chicken of claim 27 wherein the somatic tissue is endodermal.

29. (Previously Amended) The chimeric chicken of claim 27 wherein the somatic tissue is mesodermal.

30. (Previously Amended) The chimeric chicken of claim 21 wherein the mesodermal tissue is lymphocytes of the chicken.

31-40 (Cancelled)

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41. (Currently Amended) A method of creating a chimeric chicken comprising:
selecting chicken embryonic stem cells having a genome comprising a stably
integrated transgene from a culture sustained for more than 60 days,
injecting the embryonic stem cells into a recipient embryo, and
hatching a chimeric chicken from the recipient embryo wherein ~~a contribution of the~~
~~genome of the embryonic stem cells is detected by expression of the~~ expression of the stably
integrated transgene is detected in at least one tissue type of the chimeric chicken.
42. (Currently Amended) The method of claim 41 wherein the injecting step is comprised
of injecting embryonic stem cells into a compromised embryo, ~~transgene encodes an exogenous~~
~~protein.~~
43. (Currently Amended) The method of claim 42 wherein the embryo is compromised
by gamma irradiation ~~exogenous protein encoded by the transgene is expressed in the somatic tissue~~
~~of the chimera.~~
44. (Previously Amended) The method of claim 42 wherein the embryo is
compromised by mechanical removal of cells from the embryo.
45. (Currently Amended) The method of claim 41 wherein the expression of the stably
integrated transgene is detected in extra-embryonic tissue ~~mesodermal tissue is lymphocytes of the~~
~~chimera.~~
46. (Currently Amended) The method of claim 41 wherein the ~~contribution of the~~
~~embryonic stem cells~~ expression of the stably integrated transgene is detected in somatic tissue.

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47. (Currently Amended) The method of claim 46 wherein the somatic tissue is ectodermal culture is sustained more than 60 days.
48. (Previously Amended) The method of claim 46 wherein the tissue is endodermal.
51. (Previously Presented) The method of claim 46 wherein the tissue is mesodermal.
52. (Previously Presented) The chimeric chicken of claim 27 wherein somatic tissue is ectodermal.